

## DESCRIPTION

UNIPOWER's **AE-080U SERIES** is an 80 Watt Power Supply platform with both standard and configurable models featuring output voltage(s) that can be quickly configured to order while maintaining all international safety approvals.

These power supplies are available with Universal AC Input and single or quad output configurations ranging from 1.5 to 48 VDC. The AE-080U feature an industry-standard footprint, international safety approvals, Class B emissions; and -20 ~ +70°C operation (see derating).

**EASYMOD UPGRADES** include a multitude of output voltage configurations, optional covers (with or without fan), extended temperature operating range, isolated outputs, DC inputs, attached wire harnesses and much, much more. All these modifications are available without any impact on safety approvals to reduce both development cost and time to market.

## FEATURES

- ◆ Universal AC Input Range (90-264 VAC)
- ◆ Industry-Standard 3" x 5" U-Frame Footprint
- ◆ 1 or 4 Outputs configurable from 1.5~48VDC
- ◆ International Safety Approvals
- ◆ >250k Hours MTBF (MIL-217F)
- ◆ Optional -40°C Guaranteed Start-Up



**Contact Unipower to discuss  
your application and define  
the right part number for your  
specific application.**

## TWO-YEAR WARRANTY

## INTERNATIONAL STANDARDS

UL/cUL 60950-1  
CB Report, IEC60950-1  
CE Mark (LVD)

## FLEXIBLE OUTPUT CONFIGURATION GUIDELINES

with 90-264 VAC Input and -20-50°C Operation

### Single Output Capabilities

OUTPUT CURRENT	1.5~3.3V	5V	12V	15V	24V	48V
MINIMUM	0A	0A	0A	0A	0A	0A
CONVECTION <sup>(3)</sup>	12A	12A	5.0A	4.0A	2.5A	1.25A
15 CFM AIR <sup>(4)</sup>	16A	16A	6.6A	5.3A	3.3A	1.67A
PEAK <sup>(5)</sup>	19A	19A	7.5A	6.3A	3.75A	1.87A

### Multiple Output Capabilities

OUTPUT	DC OUTPUT	MIN	CON <sup>(3)</sup>	AIR <sup>(4)</sup>	PEAK <sup>(4, 5)</sup>
V1	1.5 ~ 48V <sup>(7)</sup>	1.0A <sup>(2,13)</sup>	10.0A	14.0A	16.0A
V2	1.5 ~ 48V <sup>(8)</sup>	0.4A <sup>(2,13)</sup>	4.0A	7.0A	9.0A
V3	1.5 ~ 48V <sup>(8)</sup>	0.4A <sup>(2,13)</sup>	4.0A	5.0A	6.5A
V4	1.5 ~ 48V <sup>(8)</sup>	0.2A <sup>(2,13)</sup>	2.0A	3.0A	4.0A

- (1)...Full power out on V3-V4 with minimal V1 and V2 loading—Option.  
 (2)...10% minimum load for stated regulation on multiple O/P units.  
 (3)...Convection cooling.  
 (4)...15 CFM forced air cooling, conditions.  
 (5)...30 seconds maximum duration.  
 (6)...Most output combinations from 1.5 to 48 Volts possible; up to maximum rated Current / Power...Consult UNIPOWER.

- (7)...Specify 0.1V increments.  
 (8)...Specific output voltage is current dependent.  
 (9)...Regulation may degrade under some output Consult UNIPOWER.  
 (10)...Consult UNIPOWER for Model #.  
 (11)...For outputs >48 Volts, consult UNIPOWER.  
 (12)...Cover and custom sheet metal available.  
 (13)...10% minimum of marked rating.

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## STOCKED / OFF-THE-SHELF MODELS

Listed below are common configurations stocked by UNIPOWER for immediate delivery.

### Single Output Models

MODEL	V1	MIN	CON	AIR	PEAK
AE-080U-S1-STD	5V	0A	12.0A	16.0A	19.0A
AE-080U-S2-STD	12V	0A	5.0A	6.6A	7.5A
AE-080U-S4-STD	24V	0A	2.5A	3.3A	3.75A
AE-080U-S5-STD	48V	0A	1.25A	1.67A	1.87A

### Quad Output Models

MODEL	V1	MIN	CON	AIR	V2	MIN	CON	AIR	V3	MIN	MAX	V4	MIN	MAX
AE-080U-Q1221-STD	+5V	0.5A	5A	8A	+12V	0.4A	2A	4A	-12V	0.4A	2A	-5V	0.2A	2A
AE-080U-Q1331-STD	+5V	0.5A	5A	8A	+15V	0.4A	2A	4A	-15V	0.4A	2A	-5V	0.2A	2A
AE-080U-Q1224-STD	+5V	0.5A	5A	8A	+12V	0.4A	2A	4A	-12V	0.4A	2A	+24V	0.2A	1.5A
AE-080U-Q1334-STD	+5V	0.5A	5A	8A	+15V	0.4A	2A	4A	-15V	0.4A	2A	+24V	0.2A	1.5A
AE-080U-Q0122-STD	+3.3V	0.5A	5A	8A	+5V	0.4A	2A	4A	+12V	0.4A	2A	-12V	0.2A	2A
AE-080U-Q0133-STD	+3.3V	0.5A	5A	8A	+5V	0.4A	2A	4A	+15V	0.4A	2A	-15V	0.2A	2A
AE-080U-Q0124-STD	+3.3V	0.5A	5A	8A	+5V	0.4A	2A	4A	+12V	0.4A	2A	+24V	0.2A	1.5A

**MIN** = Minimum Load Required for specified regulation  
**CON** = Maximum continuous output current with Convection Cooled Operation (Total power not to exceed 60 Watts continuous)  
**AIR** = Maximum continuous output current with 15 CFM Airflow Operation (Total power not to exceed 80 Watts continuous)  
**OPTIONAL TOP COVER** Add suffix C to the end of the model number to include a ventilated top cover.

